

Title (en)
Contacttip for measuring stylus

Title (de)
Tastspitze für Messprobe

Title (fr)
Stylet pour palpeur de mesure

Publication
EP 1202022 A1 20020502 (FR)

Application
EP 00203677 A 20001024

Priority
EP 00203677 A 20001024

Abstract (en)
A measuring probe (1) comprises a support shaft (4) carrying on a first end (5) a contact element (6) and on its second end (3) a connector (2) for a measuring head. The contact element is made from a ceramic incorporating electrically conducting particles. The electrically conducting particles are uniformly distributed throughout the contact element in the form of a thin coating with a thickness of between 0.1 and 10 μm . The particles may be carbides, nitrides, carbonitrides, borides, oxides or silicides of metal from the fourth and sixth groups of the table of elements. The ceramic conducting material has an electrical conductivity of greater than $10^{-2} \text{ Ohm}^{-1} \cdot \text{cm}^{-1}$, a hardness greater than 1200 HV20 Vickers and a density of less than $15.0 \text{ g} \cdot \text{cm}^{-3}$.

Abstract (fr)
L'invention concerne un stylet de mesure (1) comportant une tige de soutien (4) portant à une première extrémité (5) un élément de contact (6), et à la deuxième extrémité (3) des moyens de connexion (2) pour tête de mesure, caractérisé en ce que l'élément de contact (6) est réalisé en une céramique comportant des particules électriquement conductrices. <IMAGE>

IPC 1-7
G01B 1/00

IPC 8 full level
G01B 1/00 (2006.01); **G01B 5/016** (2006.01)

CPC (source: EP)
G01B 1/00 (2013.01); **G01B 5/016** (2013.01)

Citation (search report)

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- [XA] GB 966604 A 19640812 - KARL HENRY MATTSSON
- [X] BE 515762 A

Citation (examination)

- EP 1079201 A2 20010228 - RENISHAW PLC [GB]
- JP H0280901 A 19900322 - NIKON CORP
- JP 2000292114 A 20001020 - NISSHIN SANGYO CO
- DATABASE WPI Derwent World Patents Index;

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EP1881208A3; US8468707B2; WO2007085234A1; WO2008087610A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 1202022 A1 20020502

DOCDB simple family (application)
EP 00203677 A 20001024